X checked 4-14-03

GenCore version 4.5

OM protein - protein search, using sw model

Run on: August 14, 2002, 09:40:13 ; Search time 30.46 Seconds
(without alignments)
466.758 Million cell updates/sec

Title: US-09-684-215A-18
Perfect score: 653
Sequence: 1 TAASDNFQLSQGGQGFAIPI.....QTKSGGTRTGNVTLAEGPPA 128

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_032802:*
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2: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA1981.DAT:*
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22: /SIDS1/gcgdata/hold-geneseq/geneseqp-embl/AA2001.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	653	100.0	224	22	AAU69899	Human prostate pro
2	653	100.0	224	22	AAM01254	Ra12-P510S-C const
3	653	100.0	304	22	AAU69902	Human /M. tubercul
4	653	100.0	304	22	AAM01257	Ra12-P775P-ORF3 co
5	653	100.0	400	22	AAU69907	Human prostate pro
6	653	100.0	400	22	AAM01262	Ra12-P501S-E2 cons
7	653	100.0	487	22	AAG83280	Chlamydia trachoma
8	653	100.0	518	22	AAG83276	Chlamydia trachoma
9	653	100.0	525	21	AAB13645	C. pneumoniae sero
10	653	100.0	525	22	AAG83213	Protein encoded by
11	653	100.0	583	22	AAG83281	Chlamydia trachoma
12	653	100.0	585	22	AAG83277	Chlamydia trachoma
13	653	100.0	619	22	AAG83270	Chlamydia trachoma
14	653	100.0	631	22	AAG83274	Chlamydia trachoma
15	653	100.0	646	22	AAG83272	Chlamydia trachoma
16	653	100.0	654	22	AAG83278	Chlamydia trachoma
17	653	100.0	683	22	AAG83282	Chlamydia trachoma
18	653	100.0	691	22	AAG83271	Chlamydia trachoma
19	653	100.0	700	22	AAG83279	Chlamydia trachoma
20	653	100.0	715	22	AAG83273	Chlamydia trachoma
21	653	100.0	715	22	AAG83275	Chlamydia trachoma
22	632	96.8	231	20	AAY32071	Mycobacterium tube
23	632	96.8	355	20	AAY05000	Mycobacterium spec
24	632	96.8	355	22	AAG81110	Mycobacterium tube
25	632	96.8	379	20	AAY04830	Mycobacterium spec
26	632	96.8	543	22	AAU01905	M. tuberculosis an
27	632	96.8	729	20	AAY32059	Mycobacterium tube
28	627	96.0	132	18	AAW32422	Mycobacterium tube
29	627	96.0	132	18	AAW32354	Mycobacterium tube
30	627	96.0	132	19	AAW81657	M. tuberculosis im
31	627	96.0	132	19	AAW64294	Mycobacterium tube
32	627	96.0	132	20	AAY39096	M. tuberculosis an
33	627	96.0	132	20	AAY38959	M. tuberculosis re
34	627	96.0	132	22	AAU69898	Mycobacterium tube
35	627	96.0	132	22	AAU69906	Mycobacterium tube
36	627	96.0	132	22	AAM01253	Mycobacterium tube
37	627	96.0	132	22	AAM01261	Mycobacterium tube
38	627	96.0	132	22	AAU01889	M. tuberculosis pa
39	627	96.0	355	18	AAW32435	Mycobacterium tube
40	627	96.0	355	18	AAW32367	Mycobacterium tube
41	627	96.0	355	19	AAW81670	M. tuberculosis im
42	627	96.0	355	19	AAW64307	Mycobacterium tube
43	627	96.0	355	20	AAY39109	M. tuberculosis an
44	627	96.0	355	20	AAY38972	M. tuberculosis re
45	627	96.0	355	22	AAU01890	M. tuberculosis an

ALIGNMENTS

RESULT 1
AAU69899
ID AAU69899 standard; Protein; 224 AA.
XX
AC AAU69899;
XX
DT 30-JAN-2002 (first entry)
XX
DE Human prostate protein/M. tuberculosis Ra12 fusion protein RA12-P510S-C.
XX
KW Human; prostate cancer; cytostatic; immunostimulant; tumour; immunogen;
KW fusion protein.
XX
OS Chimeric - Homo sapiens.
OS Chimeric - Microbacterium tuberculosis.
OS Synthetic.
XX
PN WO200173032-A2.
XX
PD 04-OCT-2001.
XX
PF 27-MAR-2001; 2001WO-US09919.
XX
PR 27-MAR-2000; 2000US-0536857.
PR 09-MAY-2000; 2000US-0568100.
PR 12-MAY-2000; 2000US-0570737.
PR 13-JUN-2000; 2000US-0593793.
PR 27-JUN-2000; 2000US-0605783.
PR 10-AUG-2000; 2000US-0636215.
PR 29-AUG-2000; 2000US-0651236.
PR 06-SEP-2000; 2000US-0657279.
PR 02-OCT-2000; 2000US-0679426.
PR 10-OCT-2000; 2000US-0685166.
XX

PA (CORI-) CORIXA CORP.
XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;
PI Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D;
PI Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;
XX
DR WPI; 2001-639232/73.
DR N-PSDB; AAS64132.
XX
PT New human prostate-specific polypeptides and polynucleotides useful for
PT the diagnosis and treatment of cancer, especially prostate cancer - .
XX
PS Example 17; Page 533-534; 579pp; English.
XX
CC The invention relates to isolated prostate-specific
CC polynucleotides, polypeptides, fusion proteins of the polypeptides,
CC antibodies raised against the polypeptides (or antigenic epitopes
CC derived from them) and antigen-presenting cells expressing the
CC polypeptides. The antibodies are useful for detecting the presence of
CC cancer, especially prostate cancer. The polypeptides, polynucleotides and
CC the antigen-presenting cells are useful for stimulating and/or expanding
CC T cells specific for a tumour protein, and for inhibiting the development
CC of cancer especially prostate cancer. Compositions comprising the
CC polynucleotide and/or polypeptide are useful for stimulating an immune
CC response, and for treating cancer. The oligonucleotide is useful for
CC detecting cancer. The present sequence is fusion protein comprising a
CC prostate specific polypeptide of the invention.
XX
SQ Sequence 224 AA;

Query Match 100.0%; Score 653; DB 22; Length 224;
Best Local Similarity 100.0%; Pred. No. 1.2e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
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Db       8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy      61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy     121 TLAEGPPA 128
          ||||||||
Db     128 tlaegppa 135
```

RESULT 2
AAM01254
ID AAM01254 standard; Protein; 224 AA.
XX
AC AAM01254;
XX
DT 04-OCT-2001 (first entry)
XX
DE Ra12-P510S-C construct amino acid sequence.
XX
KW Human; prostate cancer; prostate-specific; diagnosis; vaccine;
KW cytostatic; gene therapy; metastasis.
XX
OS Homo sapiens.
XX
PN WO200151633-A2.
XX
PD 19-JUL-2001.
XX
PF 16-JAN-2001; 2001WO-US01574.
XX
PR 14-JAN-2000; 2000US-0483672.
XX
PA (CORI-) CORIXA CORP.
XX

PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;
PI Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;
PI Wang A, Meagher MJ;
XX
DR WPI; 2001-425873/45.
XX
PT New polynucleotide encoding a prostate-specific protein, for
PT diagnosing, monitoring and treating prostate cancer in a patient and
PT for use in vaccines -
XX
PS Claim 8; Page 493-494; 543pp; English.
XX
CC The present invention describes polynucleotide sequences (I) which encode
CC prostate-specific proteins (II). (I) and (II) have cytostatic activity,
CC and can be used in vaccine production and gene therapy. (I), (II),
CC antibodies to (II), fusion proteins comprising (II), and isolated
CC T cells prepared using (I) or (II) are used treat cancer in a patient.
CC (I) and the antibodies are also used in the detection of cancer in a
CC patient. The cancer that is diagnosed or treated is particularly
CC prostate cancer. (I) and (II) can be used in vaccines. The antibodies or
CC (I) can be used for monitoring the progression of cancer in a patient.
CC (I) and (II) can also be used to improve diagnostic and therapeutic
CC methods for prostate cancer. They can indicate the level of metastasis
CC as well as the prostate volume. AAH93357 to AAH93944 and AAM01115 to
CC AAM01318 represent polynucleotide and amino acid sequences used in the
CC exemplification of the present invention.
XX
SQ Sequence 224 AA;

Query Match 100.0%; Score 653; DB 22; Length 224;
Best Local Similarity 100.0%; Pred. No. 1.2e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
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Db       8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy      61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy     121 TLAEGPPA 128
          ||||||||
Db     128 tlaegppa 135
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RESULT 3
AAU69902
ID AAU69902 standard; Protein; 304 AA.
XX
AC AAU69902;
XX
DT 30-JAN-2002 (first entry)
XX
DE Human /M. tuberculosis Ra12 fusion protein RA12-P775P-ORF3.
XX
KW Human; prostate cancer; cytostatic; immunostimulant; tumour; immunogen;
KW fusion protein.
XX
OS Chimeric - Homo sapiens.
OS Chimeric - Microbacterium tuberculosis.
OS Synthetic.
XX
PN WO200173032-A2.
XX
PD 04-OCT-2001.
XX
PF 27-MAR-2001; 2001WO-US09919.
XX
PR 27-MAR-2000; 2000US-0536857.
PR 09-MAY-2000; 2000US-0568100.
PR 12-MAY-2000; 2000US-0570737.

PR 13-JUN-2000; 2000US-0593793.
PR 27-JUN-2000; 2000US-0605783.
PR 10-AUG-2000; 2000US-0636215.
PR 29-AUG-2000; 2000US-0651236.
PR 06-SEP-2000; 2000US-0657279.
PR 02-OCT-2000; 2000US-0679426.
PR 10-OCT-2000; 2000US-0685166.
XX
PA (CORI-) CORIXA CORP.
XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;
PI Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D;
PI Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;
XX
DR WPI; 2001-639232/73.
DR N-PSDB; AAS64141.
XX
PT New human prostate-specific polypeptides and polynucleotides useful for
PT the diagnosis and treatment of cancer, especially prostate cancer -
XX
PS Example 17; Page 537; 579pp; English.
XX
CC The invention relates to isolated prostate-specific
CC polynucleotides, polypeptides, fusion proteins of the polypeptides,
CC antibodies raised against the polypeptides (or antigenic epitopes
CC derived from them) and antigen-presenting cells expressing the
CC polypeptides. The antibodies are useful for detecting the presence of
CC cancer, especially prostate cancer. The polypeptides, polynucleotides and
CC the antigen-presenting cells are useful for stimulating and/or expanding
CC T cells specific for a tumour protein, and for inhibiting the development
CC of cancer especially prostate cancer. Compositions comprising the
CC polynucleotide and/or polypeptide are useful for stimulating an immune
CC response, and for treating cancer. The oligonucleotide is useful for
CC detecting cancer. The present sequence is fusion protein comprising a
CC prostate specific polypeptide of the invention.
XX
SQ Sequence 304 AA;

Query Match 100.0%; Score 653; DB 22; Length 304;
Best Local Similarity 100.0%; Pred. No. 1.8e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
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Db       8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy      61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy     121 TLAEGPPA 128
          ||||||||
Db     128 tlaegppa 135
```

RESULT 4
AAM01257
ID AAM01257 standard; Protein; 304 AA.
XX
AC AAM01257;
XX
DT 04-OCT-2001 (first entry)
XX
DE Ra12-P775P-ORF3 construct amino acid sequence.
XX
KW Human; prostate cancer; prostate-specific; diagnosis; vaccine;
KW cytostatic; gene therapy; metastasis.
XX
OS Homo sapiens.
XX
PN WO200151633-A2.
XX
PD 19-JUL-2001.
XX
PF 16-JAN-2001; 2001WO-US01574.
XX
PR 14-JAN-2000; 2000US-0483672.
XX
PA (CORI-) CORIXA CORP.
XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;
PI Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;
PI Wang A, Meagher MJ;
XX
DR WPI; 2001-425873/45.
XX
PT New polynucleotide encoding a prostate-specific protein, for
PT diagnosing, monitoring and treating prostate cancer in a patient and
PT for use in vaccines -
XX
PS Claim 8; Page 498-499; 543pp; English.
XX
CC The present invention describes polynucleotide sequences (I) which encode
CC prostate-specific proteins (II). (I) and (II) have cytostatic activity,
CC and can be used in vaccine production and gene therapy. (I), (II),
CC antibodies to (II), fusion proteins comprising (II), and isolated
CC T cells prepared using (I) or (II) are used treat cancer in a patient.
CC (I) and the antibodies are also used in the detection of cancer in a
CC patient. The cancer that is diagnosed or treated is particularly
CC prostate cancer. (I) and (II) can be used in vaccines. The antibodies or
CC (I) can be used for monitoring the progression of cancer in a patient.
CC (I) and (II) can also be used to improve diagnostic and therapeutic
CC methods for prostate cancer. They can indicate the level of metastasis
CC as well as the prostate volume. AAH93357 to AAH93944 and AAM01115 to
CC AAM01318 represent polynucleotide and amino acid sequences used in the
CC exemplification of the present invention.
XX
SQ Sequence 304 AA;

Query Match 100.0%; Score 653; DB 22; Length 304;
Best Local Similarity 100.0%; Pred. No. 1.8e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy      61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy     121 TLAEGPPA 128
          ||||||||
Db     128 tlaegppa 135
```

RESULT 5
AAU69907
ID AAU69907 standard; Protein; 400 AA.
XX
AC AAU69907;
XX
DT 30-JAN-2002 (first entry)
XX
DE Human prostate protein/M. tuberculosis Ra12 fusion protein RA12-P501S-E2.
XX
KW Human; prostate cancer; cytostatic; immunostimulant; tumour; immunogen;
KW fusion protein.
XX
OS Chimeric - Homo sapiens.
OS Chimeric - Microbacterium tuberculosis.
XX
PN WO200173032-A2.
XX

```
PD   04-OCT-2001.
XX
PF   27-MAR-2001; 2001WO-US09919.
XX
PR   27-MAR-2000; 2000US-0536857.
PR   09-MAY-2000; 2000US-0568100.
PR   12-MAY-2000; 2000US-0570737.
PR   13-JUN-2000; 2000US-0593793.
PR   27-JUN-2000; 2000US-0605783.
PR   10-AUG-2000; 2000US-0636215.
PR   29-AUG-2000; 2000US-0651236.
PR   06-SEP-2000; 2000US-0657279.
PR   02-OCT-2000; 2000US-0679426.
PR   10-OCT-2000; 2000US-0685166.
XX
PA   (CORI-) CORIXA CORP.
XX
PI   Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;
PI   Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D;
PI   Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;
XX
DR   WPI; 2001-639232/73.
DR   N-PSDB; AAS64153.
XX
PT   New human prostate-specific polypeptides and polynucleotides useful for
PT   the diagnosis and treatment of cancer, especially prostate cancer -
XX
PS   Example 17; Page 543-544; 579pp; English.
XX
CC   The invention relates to isolated prostate-specific
CC   polynucleotides, polypeptides, fusion proteins of the polypeptides,
CC   antibodies raised against the polypeptides (or antigenic epitopes
CC   derived from them) and antigen-presenting cells expressing the
CC   polypeptides. The antibodies are useful for detecting the presence of
CC   cancer, especially prostate cancer. The polypeptides, polynucleotides and
CC   the antigen-presenting cells are useful for stimulating and/or expanding
CC   T cells specific for a tumour protein, and for inhibiting the development
CC   of cancer especially prostate cancer. Compositions comprising the
CC   polynucleotide and/or polypeptide are useful for stimulating an immune
CC   response, and for treating cancer. The oligonucleotide is useful for
CC   detecting cancer. The present sequence is fusion protein comprising a
CC   prostate specific polypeptide of the invention.
XX
SQ   Sequence   400 AA;
```

```
  Query Match             100.0%;  Score 653;  DB 22;  Length 400;
  Best Local Similarity   100.0%;  Pred. No. 2.5e-60;
  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy      61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy     121 TLAEGPPA 128
          ||||||||
Db     128 tlaegppa 135
```

```
RESULT   6
AAM01262
ID   AAM01262 standard; Protein; 400 AA.
XX
AC   AAM01262;
XX
DT   04-OCT-2001  (first entry)
XX
DE   Ra12-P501S-E2 construct amino acid sequence.
XX
KW   Human; prostate cancer; prostate-specific; diagnosis; vaccine;
KW   cytostatic; gene therapy; metastasis.
XX
OS   Homo sapiens.
XX
PN   WO200151633-A2.
XX
PD   19-JUL-2001.
XX
PF   16-JAN-2001; 2001WO-US01574.
XX
PR   14-JAN-2000; 2000US-0483672.
XX
PA   (CORI-) CORIXA CORP.
XX
PI   Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;
PI   Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;
PI   Wang A, Meagher MJ;
XX
DR   WPI; 2001-425873/45.
XX
PT   New polynucleotide encoding a prostate-specific protein, for
PT   diagnosing, monitoring and treating prostate cancer in a patient and
PT   for use in vaccines -
XX
PS   Claim 8; Page 504-506; 543pp; English.
XX
CC   The present invention describes polynucleotide sequences (I) which encode
CC   prostate-specific proteins (II). (I) and (II) have cytostatic activity,
CC   and can be used in vaccine production and gene therapy. (I), (II),
CC   antibodies to (II), fusion proteins comprising (II), and isolated
CC   T cells prepared using (I) or (II) are used treat cancer in a patient.
CC   (I) and the antibodies are also used in the detection of cancer in a
CC   patient. The cancer that is diagnosed or treated is particularly
CC   prostate cancer. (I) and (II) can be used in vaccines. The antibodies or
CC   (I) can be used for monitoring the progression of cancer in a patient.
CC   (I) and (II) can also be used to improve diagnostic and therapeutic
CC   methods for prostate cancer. They can indicate the level of metastasis
CC   as well as the prostate volume. AAH93357 to AAH93944 and AAM01115 to
CC   AAM01318 represent polynucleotide and amino acid sequences used in the
CC   exemplification of the present invention.
XX
SQ   Sequence   400 AA;
```

```
  Query Match             100.0%;  Score 653;  DB 22;  Length 400;
  Best Local Similarity   100.0%;  Pred. No. 2.5e-60;
  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy      61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy     121 TLAEGPPA 128
          ||||||||
Db     128 tlaegppa 135
```

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RESULT   7
AAG83280
ID   AAG83280 standard; Protein; 487 AA.
XX
AC   AAG83280;
XX
DT   05-SEP-2001  (first entry)
XX
DE   Chlamydia trachomatis PmpC(1) fusion protein.
XX
KW   Chlamydia; vaccine; infection; fusion protein; antigen;
```

KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Capl; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 289-290; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 487 AA;

Query Match 100.0%; Score 653; DB 22; Length 487;
Best Local Similarity 100.0%; Pred. No. 3.2e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy      1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
          ||||||||
Db    128 tlaegppa 135
```

RESULT 8
AAG83276
ID AAG83276 standard; Protein; 518 AA.
XX
AC AAG83276;
XX
DT 05-SEP-2001 (first entry)
XX
DE Chlamydia trachomatis PmpB(1) fusion protein.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Capl; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 279-280; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 518 AA;

Query Match 100.0%; Score 653; DB 22; Length 518;
Best Local Similarity 100.0%; Pred. No. 3.5e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy      1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
          ||||||||
Db    128 tlaegppa 135
```

RESULT 9
AAB13645
ID AAB13645 standard; Protein; 525 AA.
XX
AC AAB13645;
XX
DT 02-FEB-2001 (first entry)
XX
DE C. pneumoniae serovar MOMPS pmp gene Ra12 fusion protein.
XX
KW Chlamydial infection; sexually transmitted disease;
KW pelvic inflammatory disease; PID; tubal obstruction; infertility;
KW trachoma; blindness; acute respiratory tract infection;
KW atherosclerosis; coronary heart disease; antibacterial.
XX
OS Chlamydia pneumoniae.
XX
PN WO200034483-A2.
XX
PD 15-JUN-2000.
XX

PF 08-DEC-1999; 99WO-US29012.
XX
PR 08-DEC-1998; 98US-0208277.
PR 08-APR-1999; 99US-0288594.
PR 01-OCT-1999; 99US-0410568.
PR 22-OCT-1999; 99US-0426571.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Jen S, Stromberg EJ;
XX
DR WPI; 2000-431303/37.
XX
PT Isolated polypeptide for diagnosis and treatment of Chlamydia infection
PT comprises immunogenic portion of Chlamydia antigen, which comprises
PT amino acid sequence encoded by polynucleotide sequence -
XX
PS Claim 2; Pages 221-222; 256pp; English.
XX
CC The present invention relates to new nucleic acid sequences and the
CC proteins encoded by the nucleic acid sequences. The encoded proteins
CC comprise an immunogenic portion of a Chlamydia antigen. The encoded
CC proteins are useful for the serodiagnosis and treatment of Chlamydia
CC infection. Chlamdiae are intracellular bacterial pathogens that are
CC responsible for a wide variety of human infections. C. trachomatis
CC infection is one of the most common sexually transmitted diseases and can
CC lead to pelvic inflammatory disease (PID), resulting in tubal obstruction
CC and infertility. Trachoma due to ocular infection with C. trachomatis is
CC the leading cause of preventable blindness worldwide. C. pneumonia is a
CC major cause of acute respiratory tract infections in humans and is also
CC thought to play a role in the pathogenesis of atherosclerosis and
CC coronary heart disease. The present sequence is a protein isolated in the
CC present invention.
XX
SQ Sequence 525 AA;

Query Match 100.0%; Score 653; DB 21; Length 525;
Best Local Similarity 100.0%; Pred. No. 3.5e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy 61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy 121 TLAEGPPA 128
||||||||
Db 128 tlaegppa 135

RESULT 10
AAG83213
ID AAG83213 standard; Protein; 525 AA.
XX
AC AAG83213;
XX
DT 05-SEP-2001 (first entry)
XX
DE Protein encoded by Chlamydia trachomatis serovar MOMPS pmp gene.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Cap1; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 2; Page 226-227; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 525 AA;

Query Match 100.0%; Score 653; DB 22; Length 525;
Best Local Similarity 100.0%; Pred. No. 3.5e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy 61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy 121 TLAEGPPA 128
||||||||
Db 128 tlaegppa 135

RESULT 11
AAG83281
ID AAG83281 standard; Protein; 583 AA.
XX
AC AAG83281;
XX
DT 05-SEP-2001 (first entry)
XX
DE Chlamydia trachomatis PmpC(2) fusion protein.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Cap1; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.

PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 291-292; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 583 AA;

Query Match 100.0%; Score 653; DB 22; Length 583;
Best Local Similarity 100.0%; Pred. No. 4e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 8 taasdnfqlsqggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy 61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy 121 TLAEGPPA 128
||||||||
Db 128 tlaegppa 135

RESULT 12
AAG83277
ID AAG83277 standard; Protein; 585 AA.
XX
AC AAG83277;
XX
DT 05-SEP-2001 (first entry)
XX
DE Chlamydia trachomatis PmpB(2) fusion protein.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Cap1; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 282-283; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 585 AA;

Query Match 100.0%; Score 653; DB 22; Length 585;
Best Local Similarity 100.0%; Pred. No. 4.1e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 8 taasdnfqlsqggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy 61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy 121 TLAEGPPA 128
||||||||
Db 128 tlaegppa 135

RESULT 13
AAG83270
ID AAG83270 standard; Protein; 619 AA.
XX
AC AAG83270;
XX
DT 05-SEP-2001 (first entry)
XX
DE Chlamydia trachomatis PmpA(N-term) fusion protein.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Cap1; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic

PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 264-265; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 619 AA;

Query Match 100.0%; Score 653; DB 22; Length 619;
Best Local Similarity 100.0%; Pred. No. 4.4e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy 61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy 121 TLAEGPPA 128
||||||||
Db 128 tlaegppa 135

RESULT 14
AAG83274
ID AAG83274 standard; Protein; 631 AA.
XX
AC AAG83274;
XX
DT 05-SEP-2001 (first entry)
XX
DE Chlamydia trachomatis PmpH(N-term) fusion protein.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Capl; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 274-276; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 631 AA;

Query Match 100.0%; Score 653; DB 22; Length 631;
Best Local Similarity 100.0%; Pred. No. 4.5e-60;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy 61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy 121 TLAEGPPA 128
||||||||
Db 128 tlaegppa 135

RESULT 15
AAG83272
ID AAG83272 standard; Protein; 646 AA.
XX
AC AAG83272;
XX
DT 05-SEP-2001 (first entry)
XX
DE Chlamydia trachomatis PmpF(N-term) fusion protein.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Capl; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 269-271; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for

```
CC   vaccinating against chlamydial infection, which causes pelvic
CC   inflammatory disease, trachoma, acute respiratory tract infections,
CC   atherosclerosis and heart disease.
XX
SQ   Sequence   646 AA;


  Query Match            100.0%;  Score 653;  DB 22;  Length 646;
  Best Local Similarity  100.0%;  Pred. No. 4.6e-60;
  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
          ||||||||
Db    128 tlaegppa 135


RESULT  16
AAG83278
ID   AAG83278 standard; Protein; 654 AA.
XX
AC   AAG83278;
XX
DT   05-SEP-2001  (first entry)
XX
DE   Chlamydia trachomatis PmpB(3) fusion protein.
XX
KW   Chlamydia; vaccine; infection; fusion protein; antigen;
KW   pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW   acute respiratory tract infection; Cap1; CT529; OMCB;
KW   polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS   Chlamydia trachomatis.
XX
PN   WO200140474-A2.
XX
PD   07-JUN-2001.
XX
PF   04-DEC-2000; 2000WO-US32919.
XX
PR   03-DEC-1999;   99US-0454684.
PR   19-APR-2000; 2000US-0556877.
PR   20-JUN-2000; 2000US-0598419.
XX
PA   (CORI-) CORIXA CORP.
XX
PI   Probst P,  Bhatia A,  Skeiky YAW,  Fling SP,  Scholler J;
XX
DR   WPI; 2001-374831/39.
XX
PT   Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT   inflammatory disease, trachoma, acute respiratory tract infections,
PT   atherosclerosis and heart disease -
XX
PS   Claim 70; Page 284-285; 295pp; English.
XX
CC   The present sequence is provided in.a specification relating to
CC   compounds and methods for the treatment and diagnosis of chlamydial
CC   infection. The compounds provided include polypeptides and fusion
CC   proteins comprising immunogenic portions of Chlamydia antigens
CC   and DNA sequences encoding such polypeptides. They are useful for
CC   vaccinating against chlamydial infection, which causes pelvic
CC   inflammatory disease, trachoma, acute respiratory tract infections,
CC   atherosclerosis and heart disease.
XX
SQ   Sequence   654 AA;


  Query Match            100.0%;  Score 653;  DB 22;  Length 654;
  Best Local Similarity  100.0%;  Pred. No. 4.7e-60;
  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
          ||||||||
Db    128 tlaegppa 135


RESULT  17
AAG83282
ID   AAG83282 standard; Protein; 683 AA.
XX
AC   AAG83282;
XX
DT   05-SEP-2001  (first entry)
XX
DE   Chlamydia trachomatis PmpC(3) fusion protein.
XX
KW   Chlamydia; vaccine; infection; fusion protein; antigen;
KW   pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW   acute respiratory tract infection; Cap1; CT529; OMCB;
KW   polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS   Chlamydia trachomatis.
XX
PN   WO200140474-A2.
XX
PD   07-JUN-2001.
XX
PF   04-DEC-2000; 2000WO-US32919.
XX
PR   03-DEC-1999;   99US-0454684.
PR   19-APR-2000; 2000US-0556877.
PR   20-JUN-2000; 2000US-0598419.
XX
PA   (CORI-) CORIXA CORP.
XX
PI   Probst P,  Bhatia A,  Skeiky YAW,  Fling SP,  Scholler J;
XX
DR   WPI; 2001-374831/39.
XX
PT   Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT   inflammatory disease, trachoma, acute respiratory tract infections,
PT   atherosclerosis and heart disease -
XX
PS   Claim 70; Page 293-295; 295pp; English.
XX
CC   The present sequence is provided in a specification relating to
CC   compounds and methods for the treatment and diagnosis of chlamydial
CC   infection. The compounds provided include polypeptides and fusion
CC   proteins comprising immunogenic portions of Chlamydia antigens
CC   and DNA sequences encoding such polypeptides. They are useful for
CC   vaccinating against chlamydial infection, which causes pelvic
CC   inflammatory disease, trachoma, acute respiratory tract infections,
CC   atherosclerosis and heart disease.
XX
SQ   Sequence   683 AA;


  Query Match            100.0%;  Score 653;  DB 22;  Length 683;
  Best Local Similarity  100.0%;  Pred. No. 4.9e-60;
  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy      1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
          ||||||||
Db    128 tlaegppa 135
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RESULT 18
AAG83271
ID AAG83271 standard; Protein; 691 AA.
XX
AC AAG83271;
XX
DT 05-SEP-2001 (first entry)
XX
DE Chlamydia trachomatis PmpA(C-term) fusion protein.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Cap1; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 267-268; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 691 AA;

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  Query Match           100.0%;  Score 653;  DB 22;  Length 691;
  Best Local Similarity  100.0%;  Pred. No. 5e-60;
  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
          ||||||||
Db    128 tlaegppa 135
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RESULT 19
AAG83279
ID AAG83279 standard; Protein; 700 AA.
XX
AC AAG83279;
XX
DT 05-SEP-2001 (first entry)
XX
DE Chlamydia trachomatis PmpB(4) fusion protein.
XX
KW Chlamydia; vaccine; infection; fusion protein; antigen;
KW pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW acute respiratory tract infection; Cap1; CT529; OMCB;
KW polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS Chlamydia trachomatis.
XX
PN WO200140474-A2.
XX
PD 07-JUN-2001.
XX
PF 04-DEC-2000; 2000WO-US32919.
XX
PR 03-DEC-1999; 99US-0454684.
PR 19-APR-2000; 2000US-0556877.
PR 20-JUN-2000; 2000US-0598419.
XX
PA (CORI-) CORIXA CORP.
XX
PI Probst P, Bhatia A, Skeiky YAW, Fling SP, Scholler J;
XX
DR WPI; 2001-374831/39.
XX
PT Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT inflammatory disease, trachoma, acute respiratory tract infections,
PT atherosclerosis and heart disease -
XX
PS Claim 70; Page 286-288; 295pp; English.
XX
CC The present sequence is provided in a specification relating to
CC compounds and methods for the treatment and diagnosis of chlamydial
CC infection. The compounds provided include polypeptides and fusion
CC proteins comprising immunogenic portions of Chlamydia antigens
CC and DNA sequences encoding such polypeptides. They are useful for
CC vaccinating against chlamydial infection, which causes pelvic
CC inflammatory disease, trachoma, acute respiratory tract infections,
CC atherosclerosis and heart disease.
XX
SQ Sequence 700 AA;

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  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqgggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
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          ||||||||
Db    128 tlaegppa 135


RESULT  20
AAG83273
ID   AAG83273 standard; Protein; 715 AA.
XX
AC   AAG83273;
XX
DT   05-SEP-2001  (first entry)
XX
DE   Chlamydia trachomatis PmpF(C-term) fusion protein.
XX
KW   Chlamydia; vaccine; infection; fusion protein; antigen;
KW   pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW   acute respiratory tract infection; Cap1; CT529; OMCB;
KW   polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS   Chlamydia trachomatis.
XX
PN   WO200140474-A2.
XX
PD   07-JUN-2001.
XX
PF   04-DEC-2000; 2000WO-US32919.
XX
PR   03-DEC-1999;   99US-0454684.
PR   19-APR-2000; 2000US-0556877.
PR   20-JUN-2000; 2000US-0598419.
XX
PA   (CORI-) CORIXA CORP.
XX
PI   Probst P,  Bhatia A,  Skeiky YAW,  Fling SP,  Scholler J;
XX
DR   WPI; 2001-374831/39.
XX
PT   Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT   inflammatory disease, trachoma, acute respiratory tract infections,
PT   atherosclerosis and heart disease -
XX
PS   Claim 70; Page 272-273; 295pp; English.
XX
CC   The present sequence is provided in a specification relating to
CC   compounds and methods for the treatment and diagnosis of chlamydial
CC   infection. The compounds provided include polypeptides and fusion
CC   proteins comprising immunogenic portions of Chlamydia antigens
CC   and DNA sequences encoding such polypeptides. They are useful for
CC   vaccinating against chlamydial infection, which causes pelvic
CC   inflammatory disease, trachoma, acute respiratory tract infections,
CC   atherosclerosis and heart disease.
XX
SQ   Sequence   715 AA;


  Query Match            100.0%;  Score 653;  DB 22;  Length 715;
  Best Local Similarity   100.0%;  Pred. No. 5.2e-60;
  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
          ||||||||
Db    128 tlaegppa 135


RESULT  21
AAG83275
ID   AAG83275 standard; Protein; 715 AA.
XX
AC   AAG83275;
XX
DT   05-SEP-2001  (first entry)
XX
DE   Chlamydia trachomatis PmpH(C-term) fusion protein.
XX
KW   Chlamydia; vaccine; infection; fusion protein; antigen;
KW   pelvic inflammatory disease; trachoma; atherosclerosis; heart disease;
KW   acute respiratory tract infection; Cap1; CT529; OMCB;
KW   polymorphic membrane protein; pmp; thiol specific antioxidant; TSA.
XX
OS   Chlamydia trachomatis.
XX
PN   WO200140474-A2.
XX
PD   07-JUN-2001.
XX
PF   04-DEC-2000; 2000WO-US32919.
XX
PR   03-DEC-1999;   99US-0454684.
PR   19-APR-2000; 2000US-0556877.
PR   20-JUN-2000; 2000US-0598419.
XX
PA   (CORI-) CORIXA CORP.
XX
PI   Probst P,  Bhatia A,  Skeiky YAW,  Fling SP,  Scholler J;
XX
DR   WPI; 2001-374831/39.
XX
PT   Chlamydia polypeptides and fusion proteins useful for preventing pelvic
PT   inflammatory disease, trachoma, acute respiratory tract infections,
PT   atherosclerosis and heart disease -
XX
PS   Claim 70; Page 277-278; 295pp; English.
XX
CC   The present sequence is provided in a specification relating to
CC   compounds and methods for the treatment and diagnosis of chlamydial
CC   infection. The compounds provided include polypeptides and fusion
CC   proteins comprising immunogenic portions of Chlamydia antigens
CC   and DNA sequences encoding such polypeptides. They are useful for
CC   vaccinating against chlamydial infection, which causes pelvic
CC   inflammatory disease, trachoma, acute respiratory tract infections,
CC   atherosclerosis and heart disease.
XX
SQ   Sequence   715 AA;


  Query Match            100.0%;  Score 653;  DB 22;  Length 715;
  Best Local Similarity   100.0%;  Pred. No. 5.2e-60;
  Matches  128;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 TAASDNFQLSQGGQGFAIPIGQAMAIAGQIKLPTVHIGPTAFLGLGVVDNNGNGARVQRV 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      8 taasdnfqlsqggqgfaipigqamaiagqiklptvhigptaflglgvvdnngngarvqrv 67

Qy     61 VGSAPAASLGISTGDVITAVDGAPINSATAMADALNGHHPGDVISVTWQTKSGGTRTGNV 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     68 vgsapaaslgistgdvitavdgapinsatamadalnghhpgdvisvtwqtksggtrtgnv 127

Qy    121 TLAEGPPA 128
          ||||||||
Db    128 tlaegppa 135


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Job time: 40 sec
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